

105.13 Lead in Paint, Dust, and Soil (powder and sheet forms)

These SRMs and RM have been developed in conjunction with the U.S. EPA to monitor paint, soil, and dust sources of lead. SRMs 2570 through 2576 consist of one Mylar™ sheet per unit. Each sheet, 7.6cm × 10.2cm, is coated with a single uniform paint layer for use with portable x-ray fluorescence analyzers. SRM 2579a consists of a set of six Mylar™ sheets, one each of SRMs 2570 through 2575. SRMs 2580, 2581, 2582, and 2589 consist of paint that has been ground and homogenized into a powder, 99+% of which passes a 100µm sieve. SRM 2583 and SRM 2584 consist of dust, 99+% of which passes a 100µm sieve, that was collected in vacuum cleaner bags during cleaning of dwelling interiors. SRM 2583 and SRM 2584 are certified for arsenic, chromium, cadmium, lead, and mercury. [Also see Category 106.] SRMs 2584, 2586, and 2587 are dust or soil matrices containing lead from paint. RM 8680 consists of a 10.2cm wide × 15.2cm long × 1.3cm thick section of painted fiberboard and is intended for use in the evaluation of destructive and nondestructive methods of measuring lead in paint on

[For organic contaminants in indoor dust see SRM 2585. See Table 109.2](#)

[Technical Contact: karen.murphy@nist.gov](mailto:karen.murphy@nist.gov)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit Size	Lead Concentration
2570	Lead Paint Film, Blank	1 blank film	<0.001 mg/cm ²
2571	Lead Paint Film, Nominal 3.5 mg/cm ²	1 film, plus blank	3.58 mg/cm ²
2572	Lead Paint Film, Nominal 1.6 mg/cm ²	1 film, plus blank	1.527 mg/cm ²
2573	Lead Paint Film, Nominal 1.0 mg/cm ²	1 film, plus blank	1.040 mg/cm ²
2574	Lead Paint Film, Nominal 0.7 mg/cm ²	1 film, plus blank	0.714 mg/cm ²
2575	Lead Paint Film, Nominal 0.3 mg/cm ²	1 film, plus blank	0.307 mg/cm ²
2576	Lead Paint Film, High Level	1 film, plus blank	5.59 mg/cm ²
2579a	Lead Paint Films for Portable X-ray Fluorescence Analyzers (SRMs 2570-2575)	5 films, plus blank	0.307 to 3.58 mg/cm ²
2580	Powdered Paint, Nominal 4% Lead	30 g	4.34%
2581	Powdered Paint, Nominal 0.5% Lead	35 g	0.449%
2582	Powdered Paint, Nominal 200 mg/kg Lead	20 g	209.8 mg/kg
2583	Trace Elements in Indoor Dust, 5 cert. values (As, Cd, Cr, Hg, Pb)	8 g	85.9 mg/kg

	2584	Trace Elements in Indoor Dust, 5 cert. values (As, Cd, Cr, Hg, Pb), 10 Reference. values 22 Information values	8 g	9761 mg/kg
	2586	Trace elements in Soil Containing Lead from Paint, Nominal 500 mg/kg Lead	50 g	432 mg/kg
	2587	Trace elements in Soil Containing Lead from Paint, Nominal 3000 mg/kg Lead	50 g	3242 mg/kg
	2589	Powdered Paint, Nominal 10% Lead	35 g	9.99%
RM	8680	Paint on Fiberboard, Nominal 1 to 2 mg/cm ²	1 sheet	individually value assigned
	1648	Urban Particulate Matter	2 g	14 elements certified
	1649a	Urban Dust Organics	2.5 g	1.24%
	2709	San Joaquin Soil	50 g	26 elements certified
	2710	Montana Soil Highly Elevated Trace Element Concentrations	50 g	21 elements certified
	2711	Montana Soil Moderately Elevated Trace Element Concentrations	50 g	24 elements certified
	2783	Air Particulate on Filter Media	2 loaded filters & 2 blanks	18 elements certified 9 reference values